

RapidRoll® Clean

The Ultimate in High Speed Doors

ALBANY
DOOR SYSTEMS
A company of Albany International Corp.



**Control Particles
and Pressure**

RapidRoll® Clean. Minimize cleanroom risk with maximum particle and pressure control.

From the world's largest manufacturer of high speed industrial doors.

RapidRoll® Clean helps you minimize cleanroom risk without compromising product quality or worker safety. You'll gain greater control over particle concentration and air changes while maintaining stringent cleanroom requirements, including ISO Class 5 (US Federal Standard 209E Class 100) and GMP Class C. RapidRoll Clean is ideal for food, pharma and electronics cleanroom applications.

Higher Performance – Lower Costs

RapidRoll Clean's near air tight seal, minimizes pressure drop and combined with opening speeds of up to 80"/second, can reduce cleanroom energy and filtration costs.

- **Speed** – fast opening and closing speeds control air exchange; reduces filtration costs and contaminants.
- **MCC Vector Control** – high-speed performance with low energy demand reduce wear and maintenance costs.
- **Stainless steel design** – simplifies cleaning by eliminating particle accumulation; helps maintain GMP Class C and ISO Class 5 (US Federal Standard 209E Class 100).



RapidRoll® Clean Applications

Pharmaceutical Production

Food Manufacturing

Medical/Biotechnology production

Electronics/Semiconductor Production

Areospace/Automotive Production

Chemical/Environmental Analysis

Keep workers safe and more productive

RapidRoll Clean helps prevent lost-time accidents and is easy to learn and operate.

- **Contactless Safety Edge** – prevents accidents even under high speeds; traveling photocells detect objects at any door position and immediately reverse door to the open position.
- **Optional Contactless Actuator** – a simple hand wave opens the door in a faster more hygienic way.
- **Optional BacOut Safety System** – for rapid egress, UPS battery backup powers the door in an outage.

Lower total cost of ownership

The RapidRoll Clean adds considerable value to your top and bottom line. You'll ensure regulatory compliance, product integrity and worker safety, while reducing energy and maintenance costs.

Visit www.albanydoors.us and see for yourself how the RapidRoll Clean has the speed, particle control and safety that withstand stringent cleanroom environments like no conventional or high-speed door can.

RapidRoll® Clean Technical Information

Designed for cleanrooms with pressure differences up to 50 Pa.

Speeds

Opening speeds	80" per second
Closing speeds	40" per second

Cleanroom Class

ISO Class 5 (US Federal Standard 209E Class 100) – EN 14644-1

GMP

Class C

Leakage

20 m³/h (door size 1500 x 2000mm)

Door Dimension

Max. height	11.5 ft. (3500mm)
Max width	11.5 ft. (3500mm)
Min. height	3.2 ft. (1000mm)
Min. width	3.2 ft. (1000mm)
Max. height with UPS	3.2 ft. (1000mm)

Safety Features

Electric reversing edge	Reverses when touches an object in the opening
Photoeye	Standard
Contactless Safety Edge	Optional – detects objects on the door opening before contact
BacOut Safety System	UPS battery backup for rapid egress

Door Panel

FDA approved PVC with white or blue reinforcement strips	Standard
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Door Components

Side Frames	Stainless Steel
Bottom Beam	Stainless Steel
Top Roll Cover	Stainless Steel
Motor Cover	Stainless Steel

Control System

MCC VectorControl™	Variable frequency drive with soft start/soft stop and high-resolution encoder. 24V DC, UL listed
Input Voltage	208-240 V, 440-480 V, 575 - 600 V*
Motor	1.0-Hp, 3 phase, 60 Hz, 20 amps
Limits Adjustment	At controller
Protection	IP-55
MCC VectorControl with UPS	Optional

* External transformer required for 575V.

We offer various options and actuation devices for all Albany High Speed Doors.



FDA Certified PVC Door Panel

Transparent vinyl plus polyester monofilament woven double layer for greatest visibility and strength.



Door Design

Stainless steel side frame, motor and roll cover, and bottom profile simplify cleaning and eliminate particle accumulation, which help maintain GMP Class C and ISO Class 5.



Contactless Actuator

Simply wave your hand for faster, more hygienic operation.



Narrow Side Frames

Minimal side columns offer added installation flexibility for confined areas; while minuscule curtain guide gap ensures lowest possible pressure loss.



Safety Features

Contactless Safety Edge prevents accidents even under high speeds; traveling photocells detect objects at any door position and immediately reverse door to the open position.



Bottom Bar

Minuscule gap between bottom profile and side columns minimizes pressure loss when door is closed.



MCC VectorControl

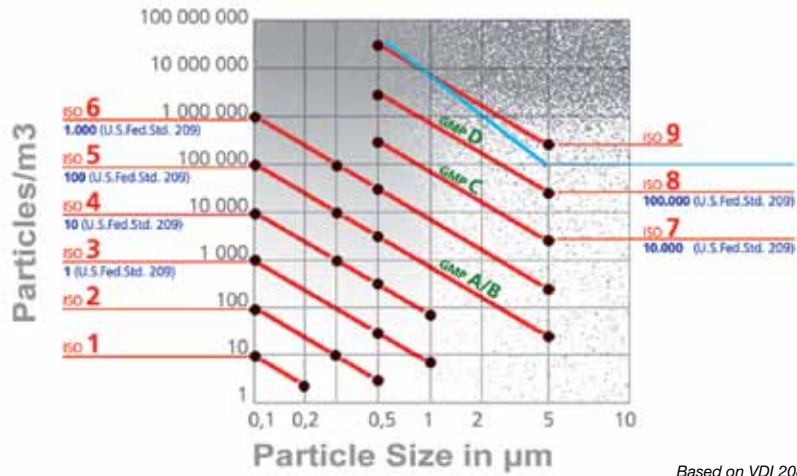
Boosts speed with less energy delivering fast smooth operation with minimal wear and maintenance.



Top Roll & Motor Covers

Stainless steel covers minimize particle accumulation and help maintain GMP Class C and ISO Class 5 cleanroom (US Fed. Std. 209E Class 100).

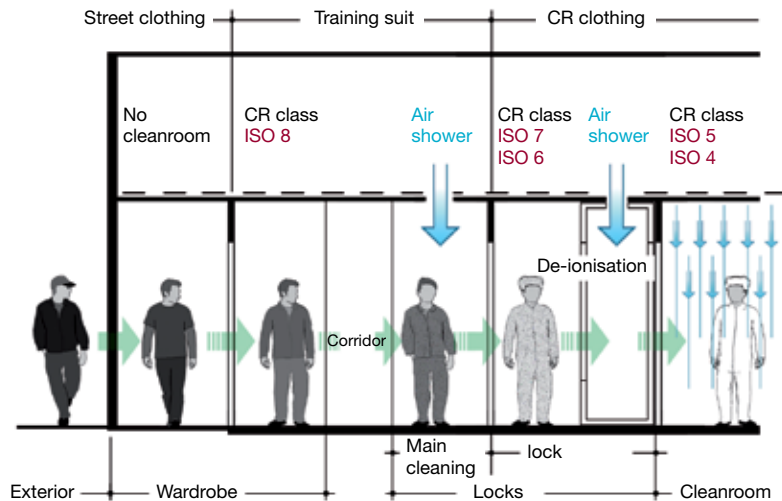




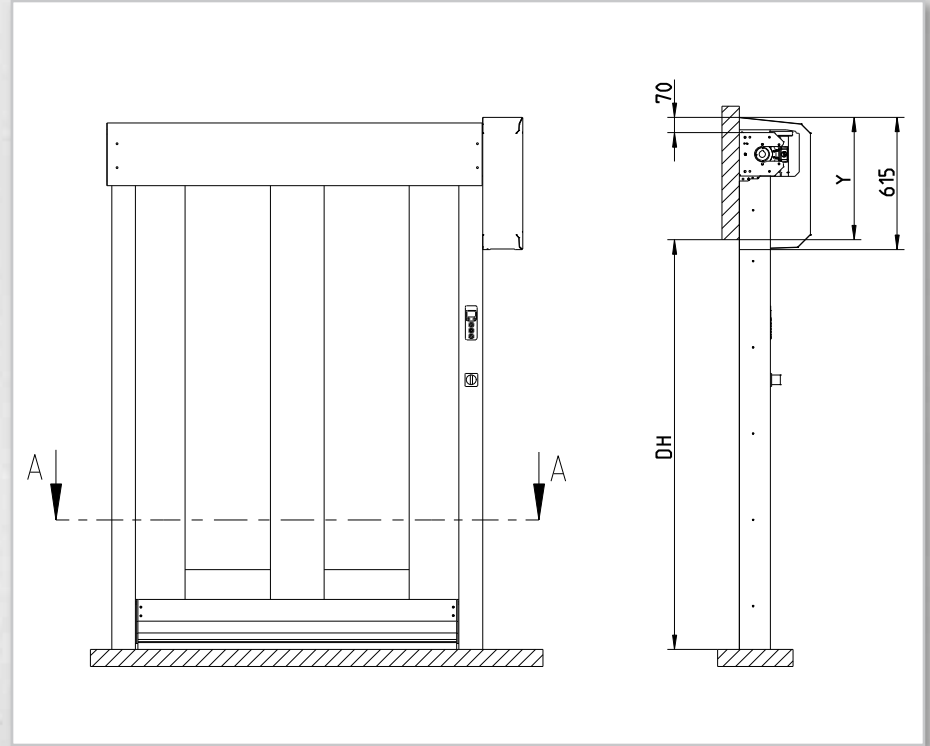
Based on VDI 2083 sheet 1

GMP Class	Application
A	Zones for high-risk operations
B	In case of aseptic production, background environment for a cleanliness class A zone
C	Zones for less critical stages in the production of sterile products
D	Zones for less critical stages in the production of sterile products

Based on VDI 2083 sheet 1



Based on VDI 2083 sheet 1



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